Single Sign On (SSO) - SAML

Introduction:

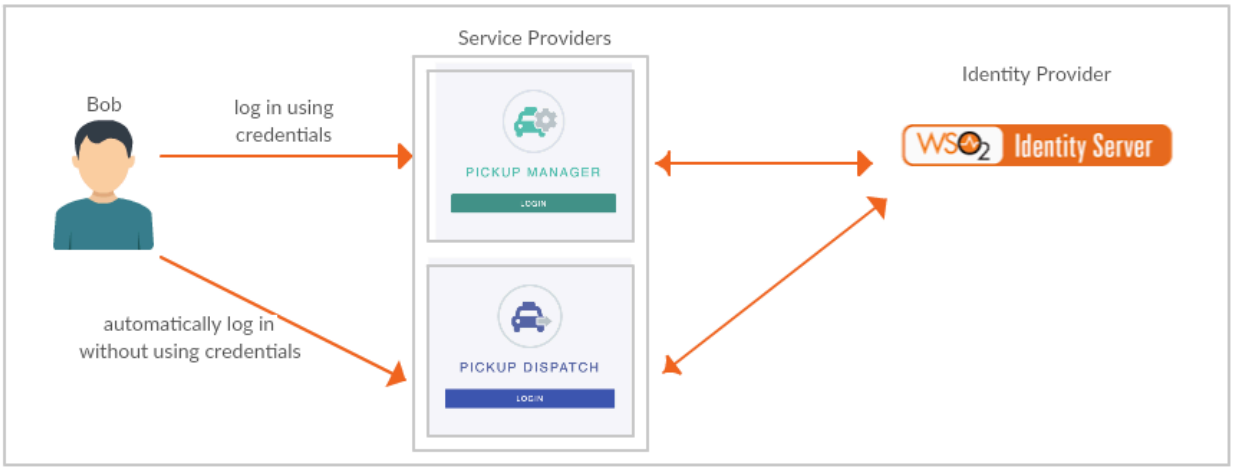
Pickup is a cab company that has many employees and different internal enterprise applications. Following are two such applications:

- **Pickup Dispatch**: This application helps manage the overall operations at Pickup.
- **Pickup Manager**: This application helps allocate vehicles to drivers.

Pickup is using **WSO2 Identity Server** as the identity provider for their applications.

Bob is a Pickup employee who usually forgets application passwords. As a result, Bob uses the same credentials for all the Pickup applications. However, due to busy schedules, Bob does not like entering the credentials at every login. So, the WSO2 Identity Server team suggested Bob to use Single Sign-On (SSO).

With SSO, Bob only needs to provide the login credentials to one Pickup application and automatically be logged in to other Pickup applications.



This tutorial will allow you to have hands-on experience on how to configure **SSO** with WSO2 Identity Server using **SAML protocol**.

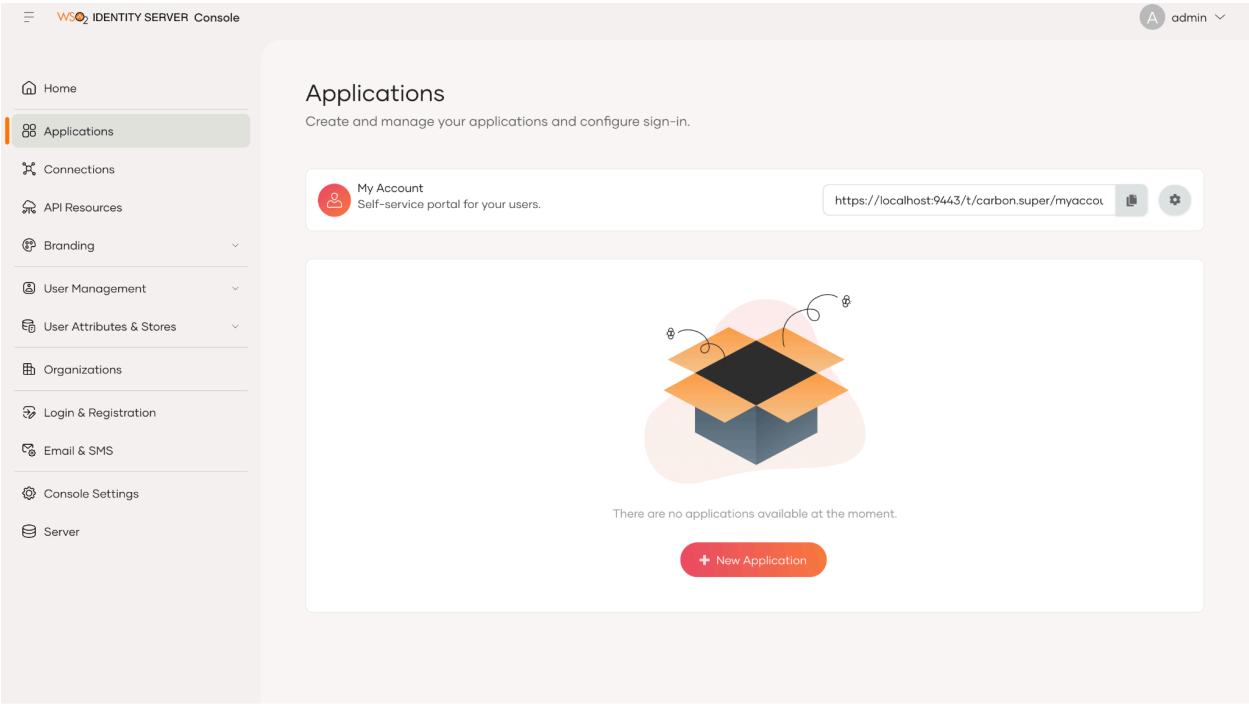
Setting up:

1. Download a tomcat server 8 or 9, run the server on port 8080.
2. Download the saml2-web-app-pickup-dispatch.com.war and saml2-web-app-pickup-manager.com.war and deploy them in tomcat.

   ex: Move the `saml2-web-app-pickup-manager.com.war` to the `<TOMACAT_PATH>/webapps`

Configure Service Providers

1. Login to the WSO2 Identity Server **Console,** using your admin credentials (ex: admin:admin).
2. In the WSO2 Identity Server **Console,** from the menu click **Applications.**



3. Click **New Application.**
4. From the given set of templates, select **Traditional Web Application** template.
5. Fill the fields in the **create application** wizard.

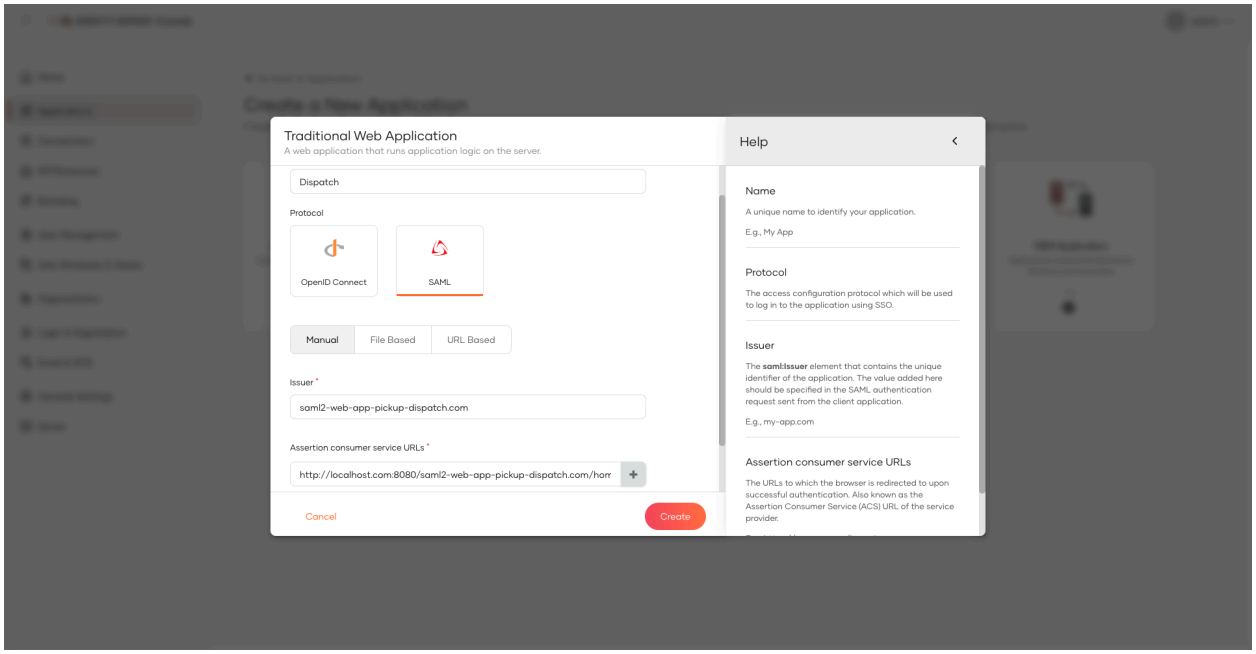
    Name: *Pickup Dispatch*

    Protocol: *SAML*

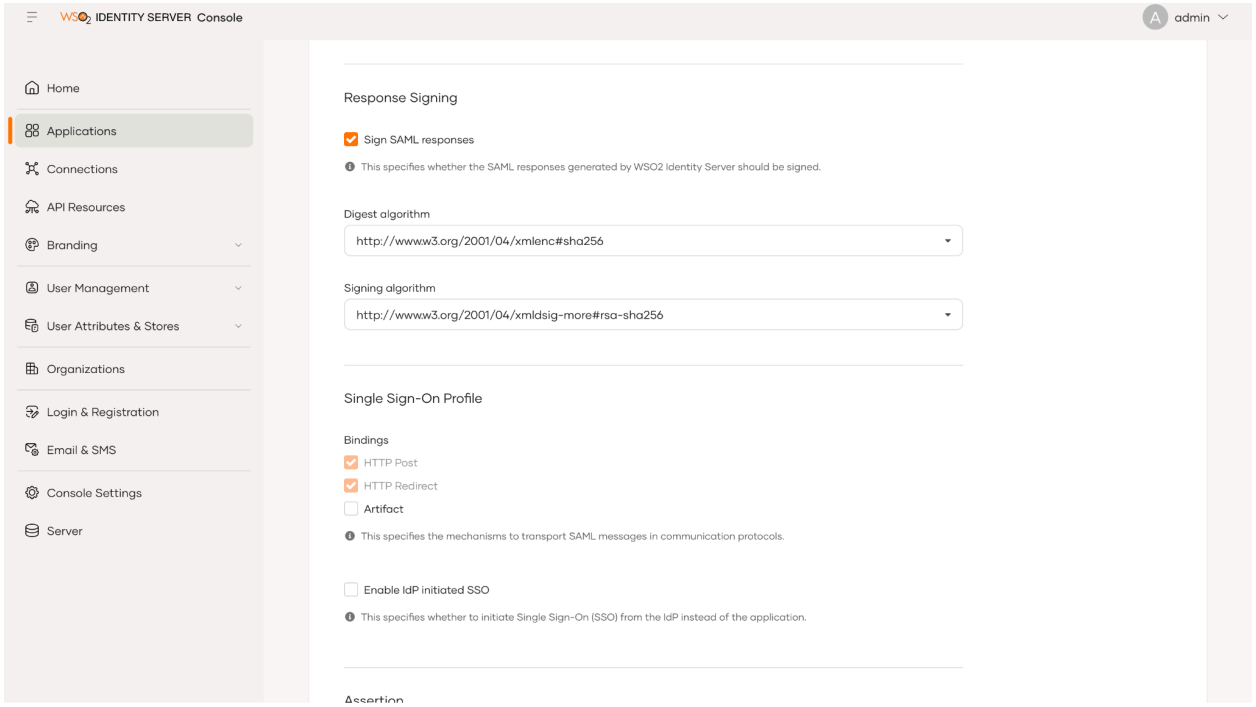
    Issuer: *saml2-web-app-pickup-dispatch.com*

    Assertion consumer service URLs:

    http://localhost.com:8080/saml2-web-app-pickup-dispatch.com/home.jsp



6. Click **Create.**
7. Goto the Protocols tab and click on the check box to **Enable Response Signing**.



8. Next, repeat the same steps 3-7 to create a new service provider for **pickup-manager** application. Use the below values for the required fields.

   Name: *Pickup Manager*

   Protocol: *SAML*

   Issuer: *saml2-web-app-pickup-manager.com*

   Assertion consumer service URLs:

   http://localhost.com:8080/saml2-web-app-pickup-manager.com/home.jsp

9. Now you are ready to try out the sample with SAML SSO.
10. Restart the WSO2 Identity Server.

Try It:

1. Go to http://localhost.com:8080/saml2-web-app-pickup-dispatch.com and click on the login button.
2. You will be redirected to the login page of the WSO2 Identity Server. Log in using your user credentials.
3. You will be redirected to saml2-web-app-pickup-dispatch.com application home page.
4. Now if you go to http://localhost.com:8080/saml2-web-app-pickup-manager.com, and click the login button, you can see that the user has automatically logged in to this application.